

Fig.4

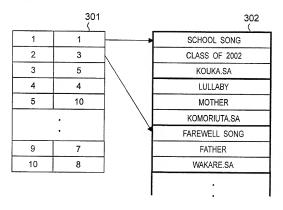


Fig.5

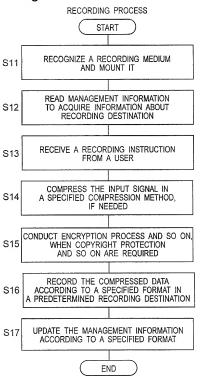
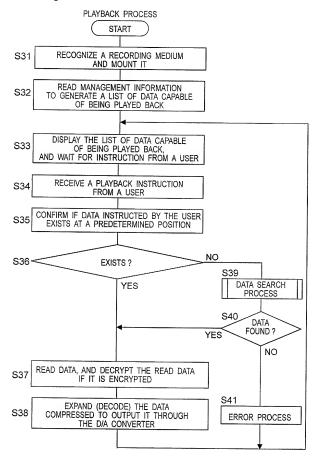


Fig.6



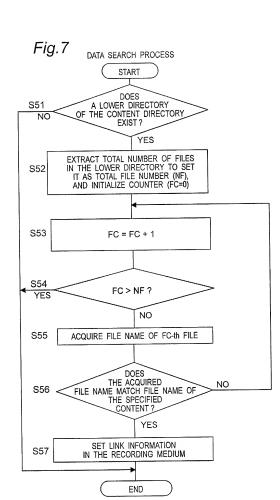


Fig.8A Fig.8B NORMAL STATE AFTER ERRONEOUS OPERATION ROOT ROOT CONTENT DIRECTORY CONTENT DIRECTORY MANAGEMENT INFORMATION MANAGEMENT INFORMATION CONTENT A CONTENT A CONTENT B CONTENT C CONTENT C EXTENSION DIRECTORY EXTENSION DIRECTORY CONTENT B

Fig.9

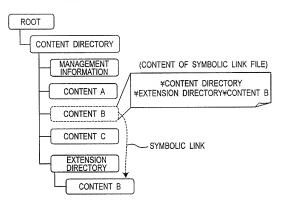


Fig.10

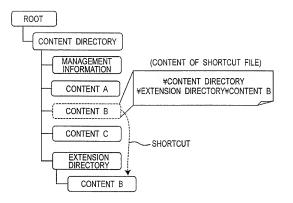


Fig.11

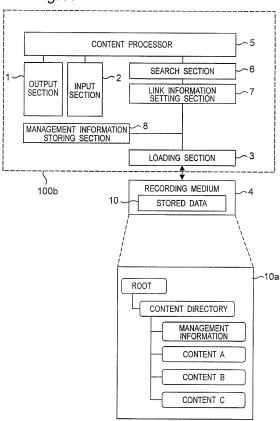


Fig.12

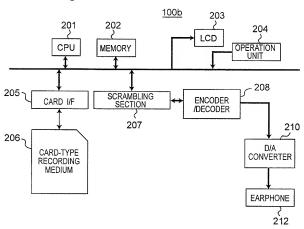


Fig.13

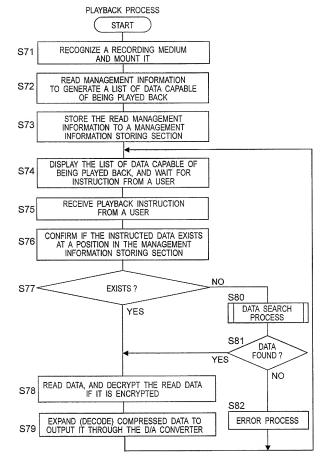


Fig.14

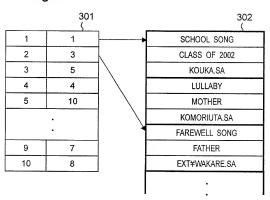


Fig.15 DATA SEARCH PROCESS START DOES S91 A LOWER DIRECTORY OF THE CONTENT DIRECTORY NO EXIST? YES EXTRACT TOTAL NUMBER OF FILES S92 IN THE LOWER DIRECTORY TO SET IT AS TOTAL FILE NUMBER (NF). INITIALIZE COUNTER (FC=0) S93 FC = FC + 1S94 FC > NF ? NO S95 ACQUIRE FILE NAME OF FC-th FILE DOES THE ACQUIRED NO S96 FILE NAME MATCH FILE NAME OF THE SPECIFIED CONTENT? YES STORE LINK INFORMATION TO S97 THE MANAGEMENT INFORMATION

STORING SECTION

END

Fig.16A

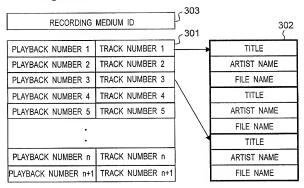


Fig.16B

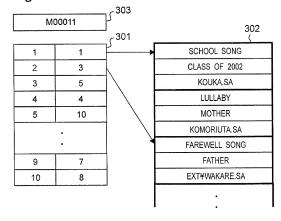


Fig.17

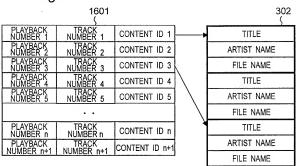
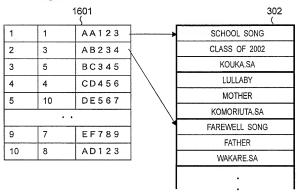


Fig.18





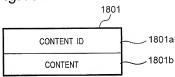


Fig.19B

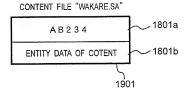
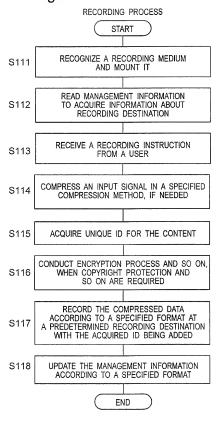


Fig.20



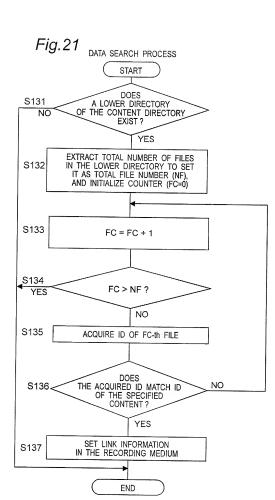


Fig.22

